

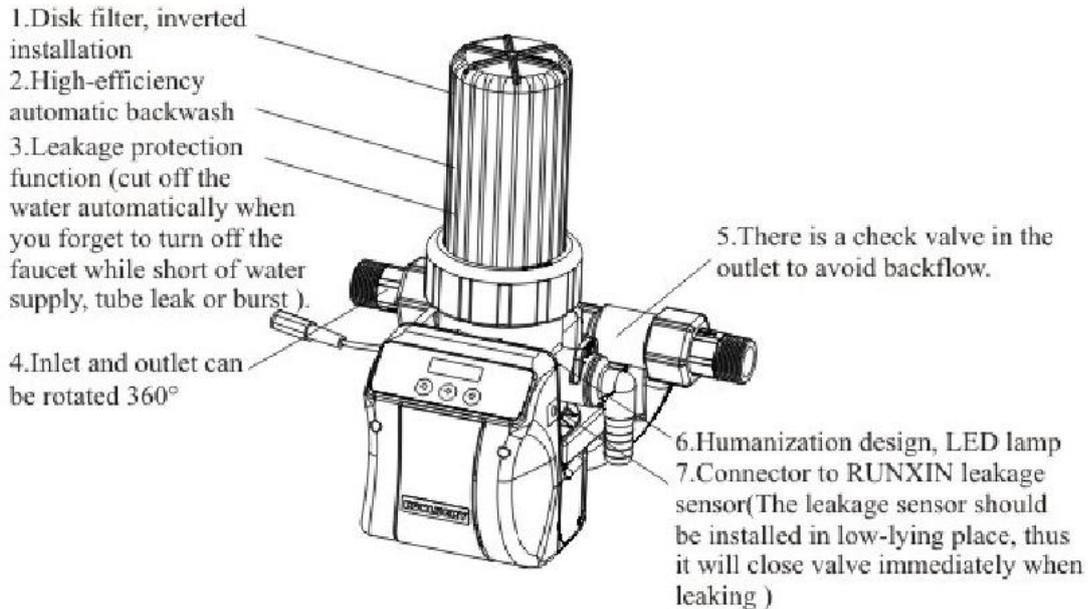
# User Manual for High-efficiency Automatic Backwash Disk Prefilter

0WRX.466.671

## 1. Main Application

Used for filtering municipal water treatment. Coarse filtration. Can filter PM larger than 0.05mm, for protecting the back water equipment. Suitable for installation in house.

## 2. Product Characteristics



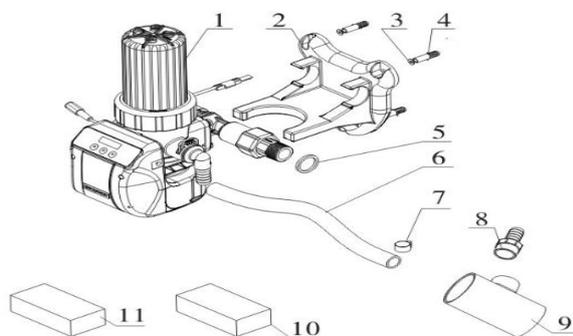
## 3. Technical Parameters

Model	Nominal Size	Rated Water Flow m <sup>3</sup> /h	Rated Treated Water Quantity m <sup>3</sup>	Filtration Precision μm
RL-Q01	DN20	1.5	15	50
RL-Q02	DN25	2.5	25	50
Operating Conditions:				
Working pressure: 0.1~0.6MPa		Working water temperature : 5~50℃		
Environment temperature: 5~50℃;		Relative humidity: ≤ 90% ( 25℃ )		
Power Adapter : Input AC100~240V/50~60Hz, Output DC12V				

Note: Rated treated water quantity is related to raw water quality, the more grain particles containing, the less water quantity will be.

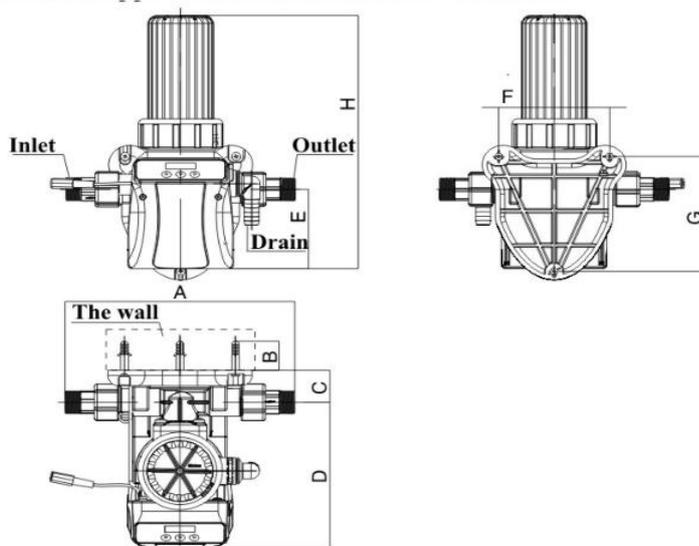
## 4. Check the Spare Parts

When unpacking the product, please check below spare parts.



Number	Description and Specification	Quantity	Remark
1	Prefilter	1	
2	Fixed Seat	1	
3	Screw Corss ST3.9×25	3	
4	Expand Screw	3	OD φ 6
5	Seal Ring	2	
6	Soft Pipeline 1.5M	1	
7	Clamp	2	
8	Connector	1	
9	Three-way Connector	1	
10	Transformer	1	DC 12V, Waterproof
11	RUNXIN Leakage Sensor	1	Optional

## 5. Product Appearance and Installation Dimensions

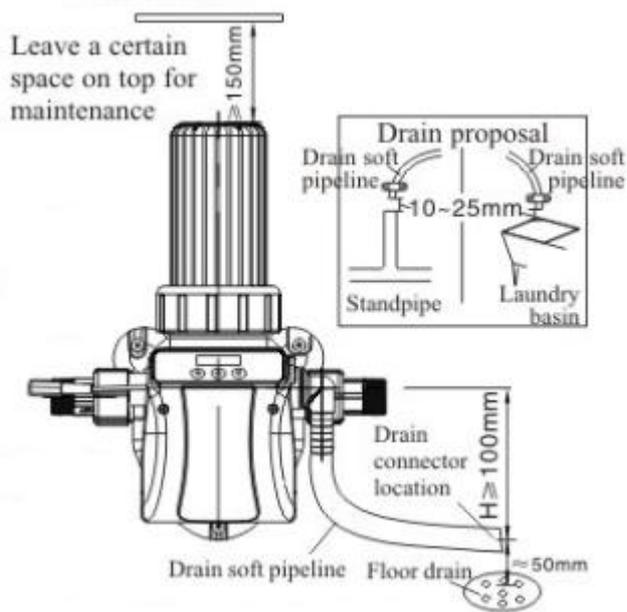


Model	Inlet/Outlet	Drain	A	B	C	D	E	F	G	H
RL-Q01	G3/4M	φ16.5	244	34	37	169	98.5	118	133	293.5
RL-Q02	G1M	φ20	302	34	45	221	118.5	130	180.5	358

Remark: M: male thread, all dimensions above are in mm.

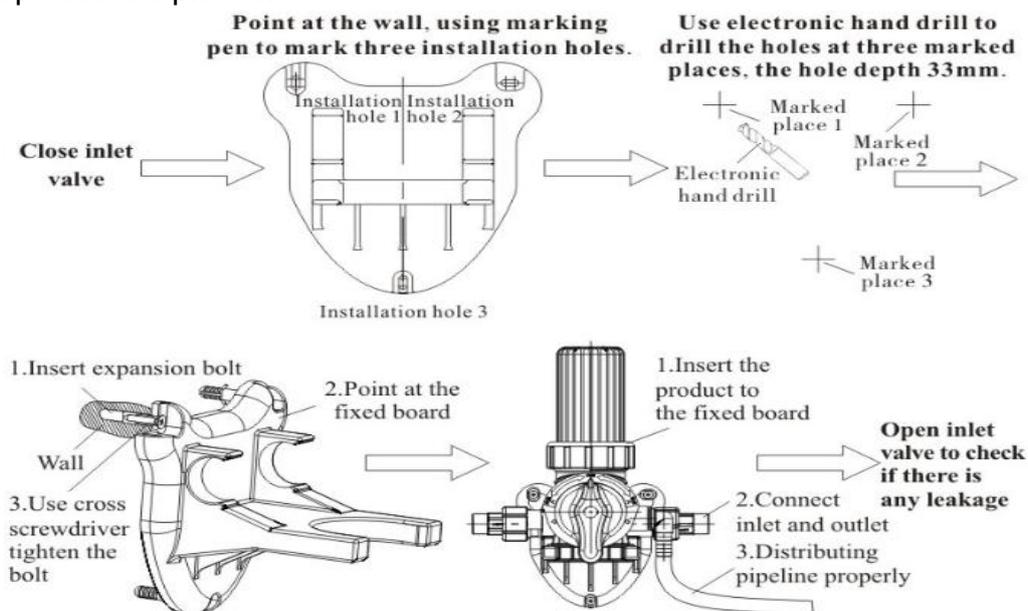
## 6. Installation Notes

1. Installation conditions should conform to the requirements of the product work environment.
2. It should be installed after water meter, but in front of other equipment.
3. It should stay away from hydrops, no exposure to rain or sunlight.
4. If pipeline pressure change suddenly, please install regulator valve.
5. The installation position of drain should lower than product's position. (Figure at right).
6. The distance between installation location and power socket should shorter than power line.
7. Please avoid subsurface pipe when drilling during the installation of screw.
8. If you have any questions, please feel free to contact our after-sales service or professionals.



## 7. Installation Step

Before installation, be sure all these tools and materials listed below are ready:  
 Electronic hand drill 1 piece (matching with  $\Phi 6$  masonry drill and tile drill, each 1 piece),  
 cross screwdriver 1 piece, hammer 1 piece, pipeline clamp several pieces, thread seal  
 tape several pieces.



## 8. Operation and Setting

### 1. Display



Figure 1A



Figure 1B

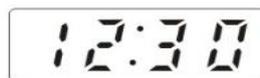


Figure 1C

- Under service position, figure 1A, 1B, 1C display circularly 10 seconds.
  - Under service position, figure 1A displays residual water (For example: L02.0: residual water  $02.0\text{m}^3$ . L00.0: start to backwash at next 2am).
  - Under service position, figure 1B displays the current flow rate (15: the current flow rate is 15L/min).
  - Figure 1C displays the current time.
- ### 2. Lock and unlock



Figure 2A



Figure 2B

Without any key operation in one minute, interface will be locked. (Refer to Figure 2A)

Press “” and “” at the same time for 5 seconds, the interface will be unlocked.

### 3. Manual function

a) Manual backwash (backwash by manual operation when needed)

In the status of unlock, figure “” (Figure 3A), enter into backwash (Figure 3B), backwash time is 20 seconds, after finished, entered into service automatically. In the process of backwash, figure “”, it will back to service.



Figure 3A



Figure 3B

a) Turn off (when maintaining filter or other water appliance products, you can cut off the water by manual operation).

In the status of unlock, figure “” for 5 seconds, valve cut off the water, (Figure 4A). The status of close refer to figure 4B. Figure “” for 5 seconds again back to service.



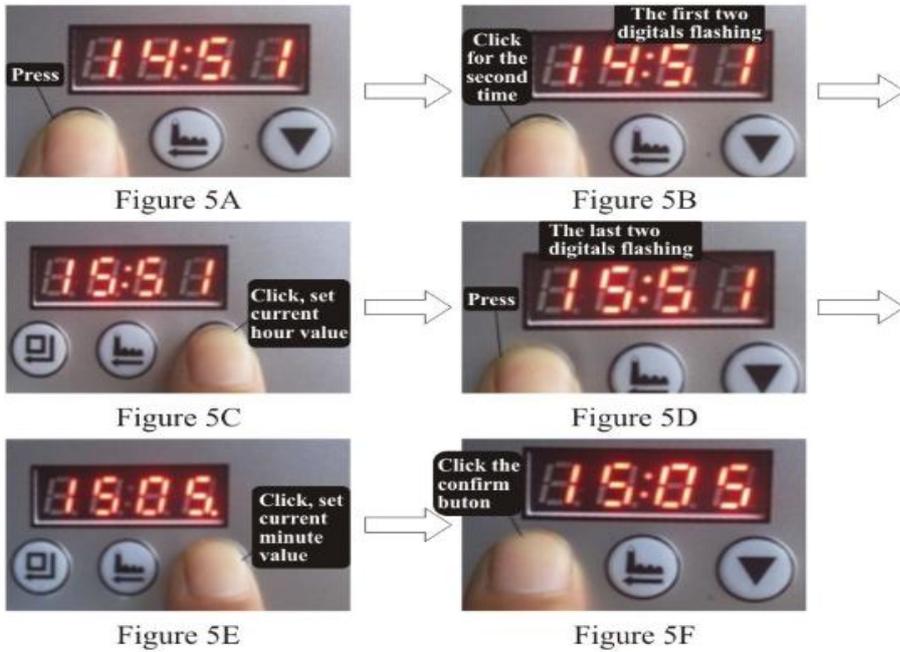
Figure 4A



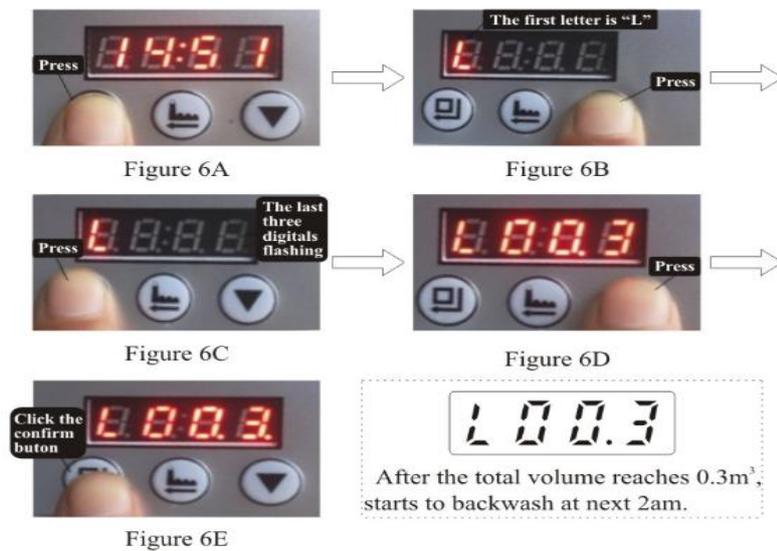
Figure 4B

### 4. Parameter Setting (All the setting should in the status of unlock)

a) Set the current time (Figure 5A, 5B, 5C, 5D, 5E, 5F. Set the current time from 14:15 to 15:05)



b) Set the water capacity(Figure 6A,6B,6C,6D,6E. Set the water capacity from 0.8m<sup>3</sup> to 0.3 m<sup>3</sup>.)When the water capacity reaches the set value, starts to backwash at next 2am.Set range: 0~20.0m<sup>3</sup>.



c) Set the closing time of continuous water supplying (Figure 7A, 7B, 7C, 7D, 7E.Set continuous water supplying time from 10 min to 20 min.)When the continuous outlet reaches the set value, may forget to turn off the faucet or occurs pipeline leakage, so the valve will cut off the water. Set range 0~90 min.0 means this function invalid. User can set it according to family water usage patterns.

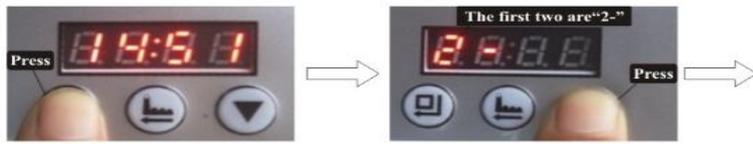


Figure 7A



Figure 7B

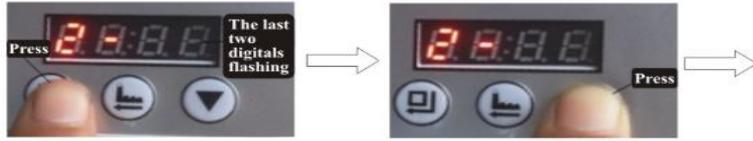


Figure 7C



Figure 7D

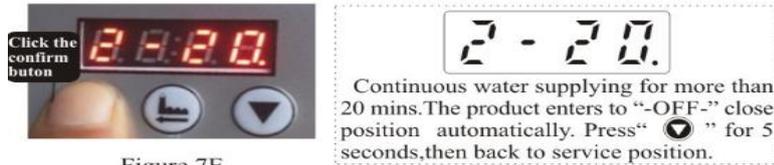


Figure 7E

d) Set peak flow rate. (Figure 8A, 8B, 8C, 8D, 8E.Set peak flow rate from 20 L/min to 10 L /min.)When the current flow rate is higher than setting rate, it will cut off water supplying. Set range10~90L/min.



Figure 8A



Figure 8B

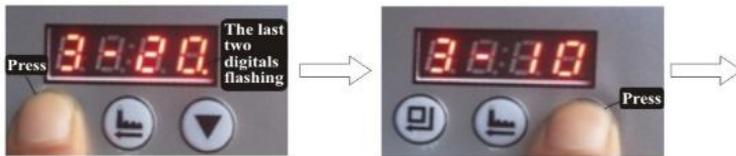


Figure 8C



Figure 8D

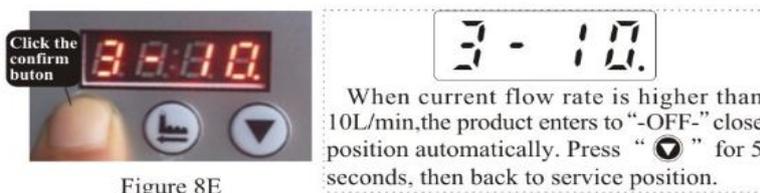
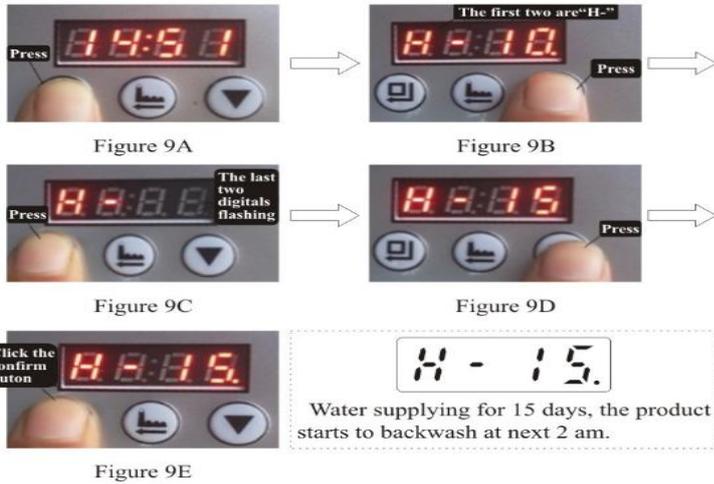


Figure 8E

e) Set maximal interval regeneration days.(Figure 9A, 9B, 9C, 9D, 9E. Set the maximal interval regeneration days from 10 days to 15 days.)When the water supply days reach the setting value, it still will backwash at next 2am to avoid impurities blocked caused by nonwashing for a long time.



5. LED lamp (Refer to Figure 10)

Touch any button, the LED lamp will light for 5 minutes. Without any operation in 5 minutes, the light will be off.

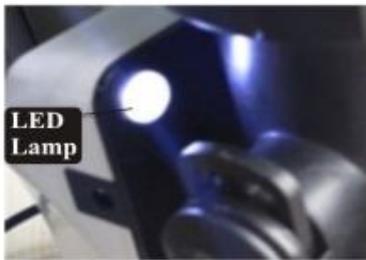
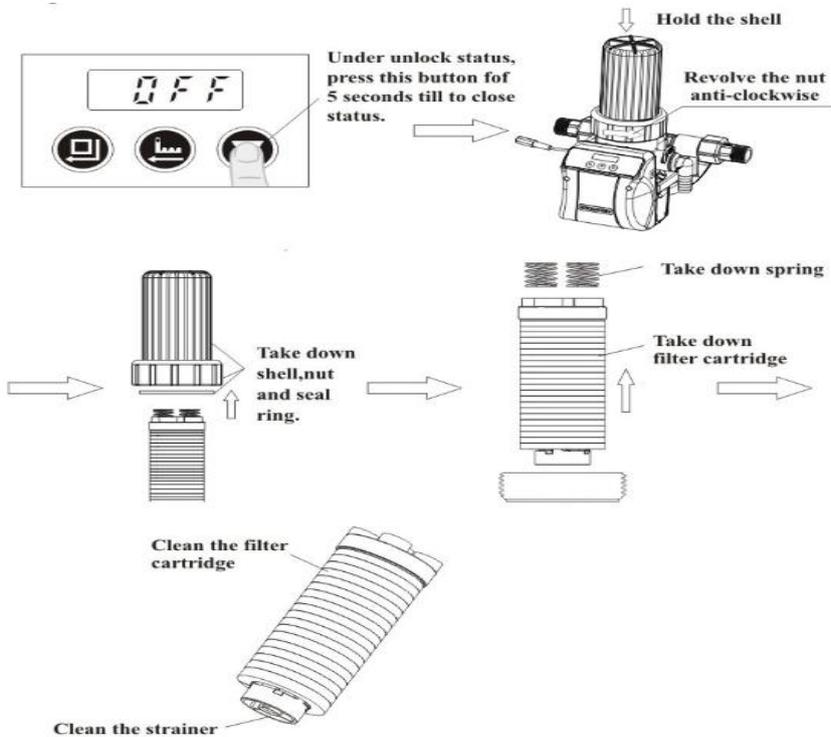


Figure 10

9. Maintenance (suggested once a year)

Steps:



After clean, repeated above steps backward to assemble all the parts and check its seal for later use.

10. Trouble-Shooting

Problem	Cause	Correction
-E1-	<ol style="list-style-type: none"> <li>1. Motor damaged</li> <li>2. Wire of motor with controller is loose</li> <li>3. Locating board damaged</li> <li>4. Wire of locating board with. Controller is loose</li> <li>5. Small gear damaged</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace motor</li> <li>2. Reconnect wire of motor.</li> <li>3. Replace locating board.</li> <li>4. Reconnect wire of locating board.</li> <li>5. Replace small gear.</li> </ol>
-E2-	<ol style="list-style-type: none"> <li>1. Locating board damaged</li> <li>2. Display board damaged</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace locating board.</li> <li>2. Replace display board.</li> </ol>
-E3-	<ol style="list-style-type: none"> <li>1. Display board damaged</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace display board</li> </ol>
-E4-	<ol style="list-style-type: none"> <li>1. Display board damaged</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace display board</li> </ol>
Current flow rate "0"	<ol style="list-style-type: none"> <li>1. Wire of water meter disconnect or breakdown.</li> <li>2. Wire of water meter damaged.</li> <li>3. Turbine gets stuck.</li> <li>4. Other causes</li> </ol>	<ol style="list-style-type: none"> <li>1. Reconnect wire of water meter.</li> <li>2. Replace wire of water meter.</li> <li>3. Clean turbine.</li> <li>4. Replace turbine.</li> </ol>
Outlet flow rate decrease	<ol style="list-style-type: none"> <li>1. Impurities stuck in filter cartridge.</li> <li>2. Filter net in the filter cartridge gets stuck.</li> </ol>	<ol style="list-style-type: none"> <li>1. Backwash manual.</li> <li>2. Clean filter net.</li> </ol>
Ineffective backwash	<ol style="list-style-type: none"> <li>1. Inlet water pressure is low.</li> <li>2. Fixed seat of filter cartridge gets stuck.</li> </ol>	<ol style="list-style-type: none"> <li>1. Install booster pump or increase flow.</li> <li>2. Disassemble and clean the filter cartridge.</li> </ol>
-OFF-	<ol style="list-style-type: none"> <li>1. Setting peak flow rate is too small.</li> <li>2. Setting closing time for. Continuous water supplying is too short.</li> <li>3. Forget to turn off the faucet or pipeline burst.</li> </ol>	<ol style="list-style-type: none"> <li>1. Reset peak flow rate, according to the flow rate.</li> <li>2. Reset closing time for continuous water supplying according to water usage.</li> <li>3. Check and repair the pipeline.</li> </ol>

## 11. Warranty Card

Dear client:

This warranty card is the guarantee proof of RUNLUCKY brand High-efficiency Automatic Backwash Disk Prefilter. It is kept by client itself, you could get the after-sales services from the supplier which is appointed by RUNXIN manufacturer. Please keep it properly. It couldn't be retrieved if lost. It couldn't be repaired free of charge under the below conditions:

1. Guarantee period expired. (One year).
2. Damage resulting from using, maintenance, and keeping that are not in accordance with the instruction.
3. Damage resulting from repairing not by the appointed maintenance personnel.

- 4. Content in guarantee proof is unconfirmed with the label on the real good or be altered.
- 5. Damage resulting from force majeure.

Product Name	<b>RUNLUCKY 润莱</b> High-efficiency Automatic Backwash Disk Prefilter			
Model		Code of valve body		
Purchase Company Name		Tel/Cel		
Problem				
Solution				
Date if Repairing		Date of Accomplishment		Maintenance Man Signature

When product need warranty service, please fill the form and send this card together with the product to the appointed suppliers or RUNXIN Company.